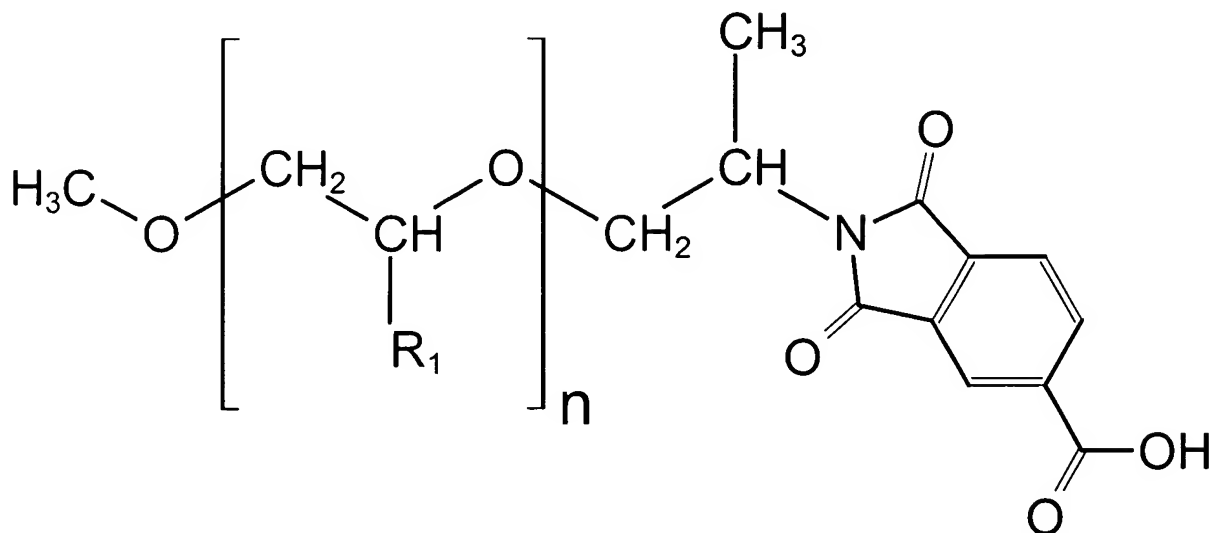


**WHAT IS CLAIMED IS:**

1. A polymeric dispersant compound for use in printing inks consisting  
5 essentially of the structure:



wherein R<sub>1</sub> is selected from the group consisting of H, CH<sub>3</sub>, and a combination thereof, n is an integer from 4 to 200.

2. The compound of claim 1, wherein n is an integer from 20 to 65.

3. The compound of claim 2, wherein n is 35.

4. The compound of claim 1 further comprising an average molecular  
15 weight for the polymeric dispersant compound from about 1,000 to about 10,000.

5. The compound of claim 4 having an average molecular weight from  
about 1,000 to about 3,000.

6. The compound of claim 5 having an average molecular weight of  
20 about 2,200.

7. An energy curable printing ink composition containing the  
compound of claim 1.

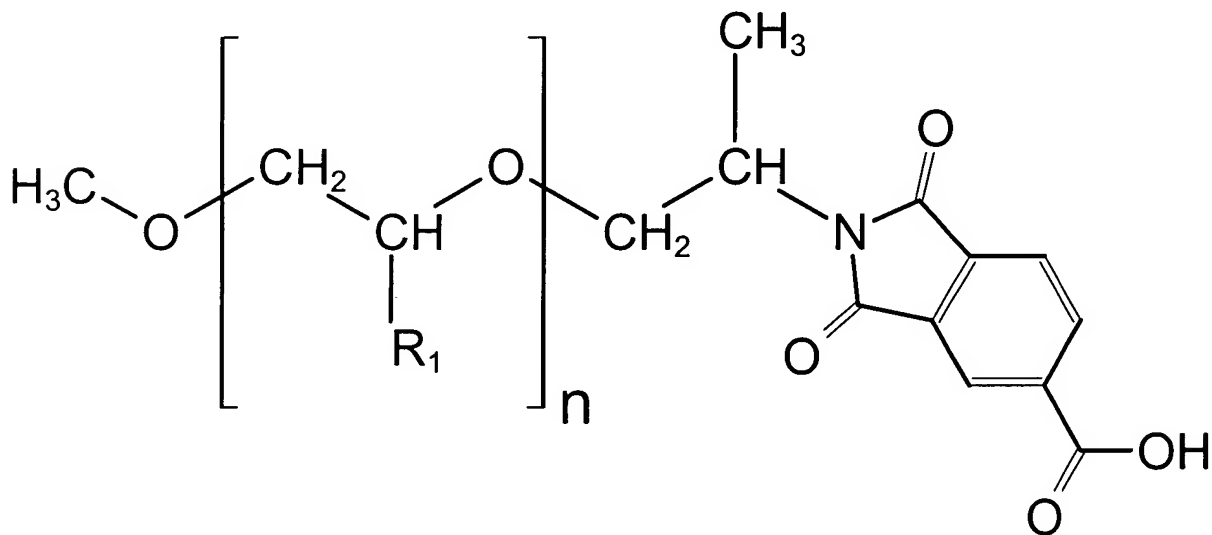
8. A solvent based printing ink composition containing the compound of claim 1.

9. A water based printing ink composition containing the compound of claim 1.

10. A method for reducing the viscosity of an energy curable printing ink by adding the compound of claim 1.

11. A method for increasing the gloss of an energy curable printing ink by adding the compound of claim 1.

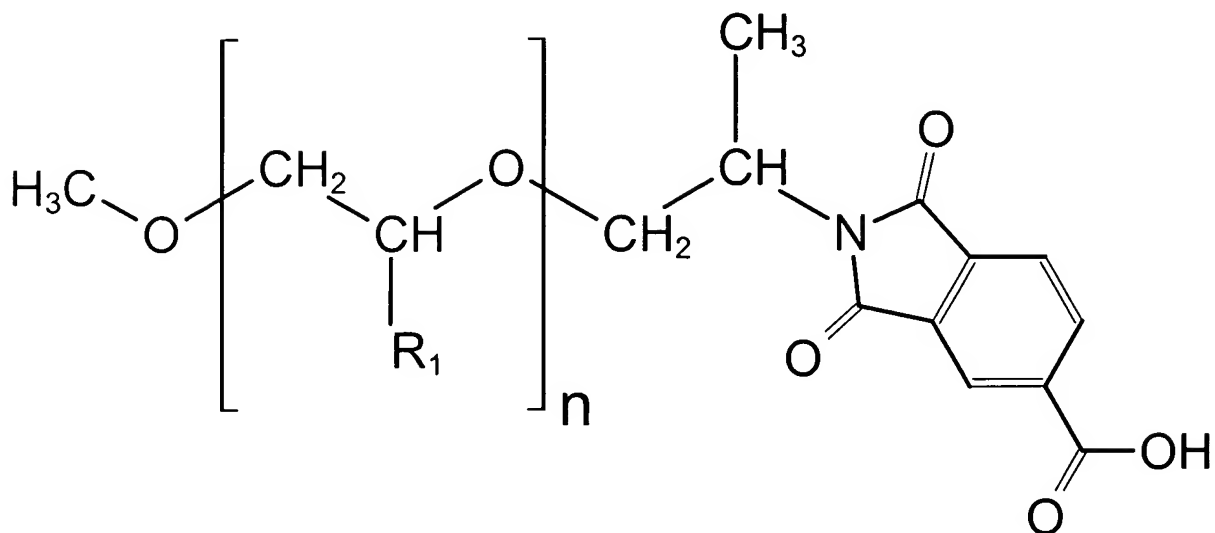
12. A polymeric dispersant compound for use in printing inks being the reaction product of reacting a polyoxyalkene amine with 1,2,4-benzenetricarboxylic acid anhydride consisting essentially of the structure:



wherein R<sub>1</sub> is selected from the group consisting of H, CH<sub>3</sub>, and a combination thereof, and n is an integer from 4 to 200.

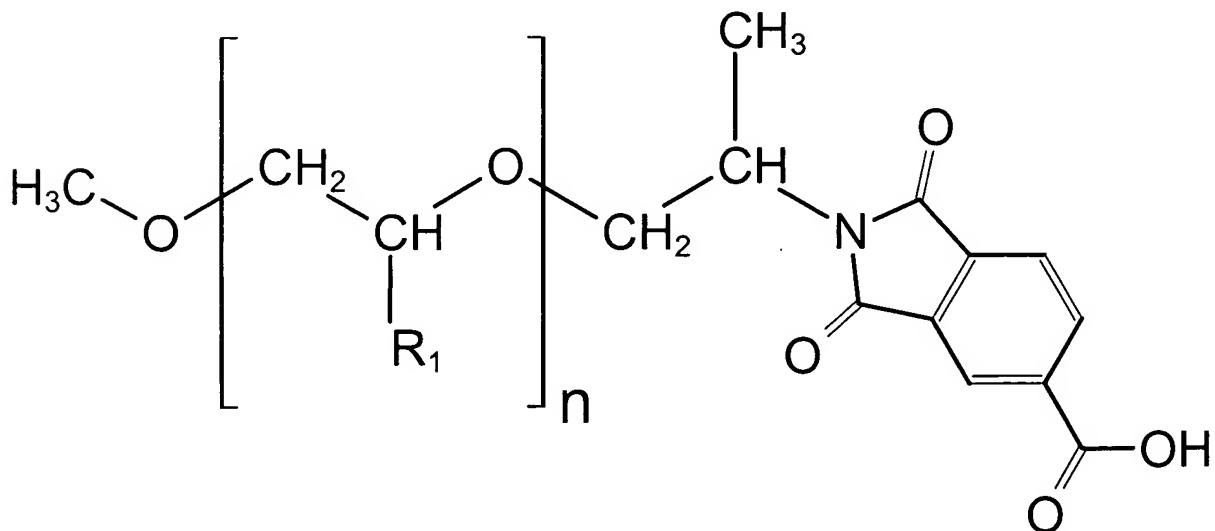
13. The compound of claim 12 wherein the polyoxyalkene amine is selected from the group consisting of a copolymer of polyethylene oxide and a polypropylene oxide.

14. An energy curable printing ink polymeric dispersant additive of the structure:



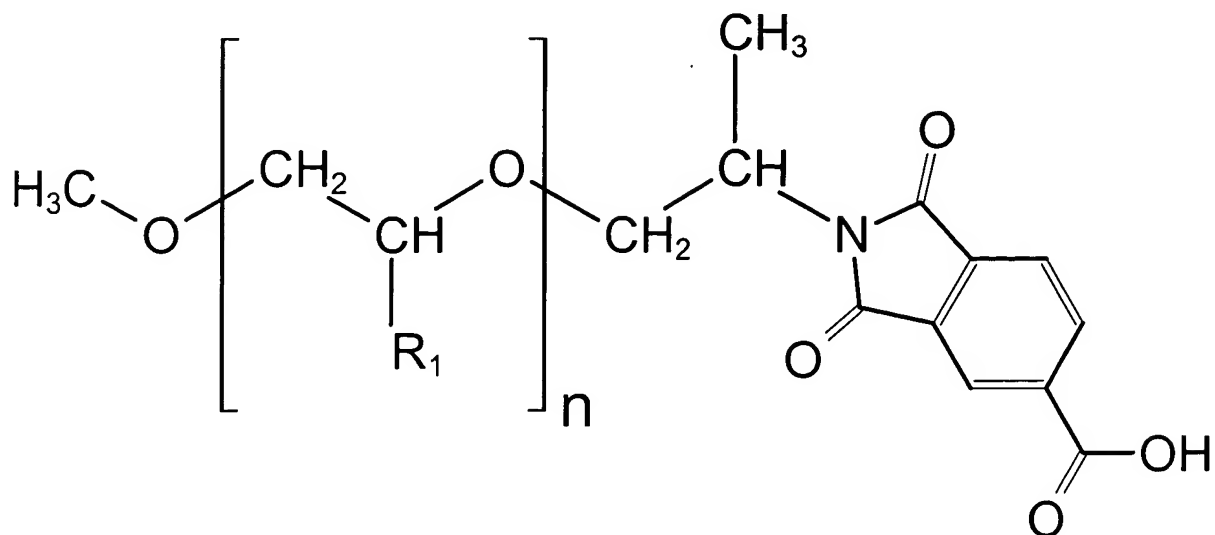
wherein  $\text{R}_1$  is selected from the group consisting of H,  $\text{CH}_3$ , and a combination thereof, and  $n$  is an integer from 4 to 200.

15. A viscosity reducing printing ink polymeric dispersant additive of the structure:



wherein  $\text{R}_1$  is selected from the group consisting of H,  $\text{CH}_3$ , and a combination thereof, and  $n$  is an integer from 4 to 200.

16. A gloss increasing energy curable printing ink polymeric dispersant additive of the structure:



wherein  $\text{R}_1$  is selected from the group consisting of H,  $\text{CH}_3$ , and a combination thereof, and  $n$  is an integer from 4 to 200.